## Influence of electric arc treatment of inner surfaces of ceramic molds on the formation of the surface of titanium casting

Petrov E., Khatmullina A., Lyakhovich A. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

## **Abstract**

© 2018 Institute of Physics Publishing. All rights reserved. Influence of the effect of electric arc titanium spraying on the inner surfaces of ceramic molds used for casting titanium was observed. Casting surface and cross-section were examined by electron microscopy with a probe microanalysis system and X-ray photoelectron spectroscopy. It was observed there is an "alpha case" on the casting surface. Its thickness and elemental composition varies through the casting surface.

http://dx.doi.org/10.1088/1742-6596/1058/1/012042

## References

[1-]

[2-]

[K]